LIS Verification Log 02 Mar 2005

Req. #	Requirement Statement	Subsystem	Test Number	Verification	Mod
3.1	GrADS-DODS for Data Management	data	4.4.1	fully	
3.2	LDAS for Data Assimilation	main	4.4.9	fully	
3.3	CLM in LIS	main	4.4.6	fully	
3.4	NOAH in LIS	main	4.4.5	fully	
3.5	VIC in LIS	main	4.4.7	fully	
3.6	ALMA for Input Variables	main	4.6.1	fully	mod 9/24/04
3.7	ALMA for Output Variable	main	4.3.4	fully	
3.8	ESMF Compliance	main	4.6.4	partial	mod 9/24/04
3.9	Internet-enabled User Interface	UI	4.6.3	fully	
4.1	Land Surface Modeling	main	4.4.9	fully	
4.2	Water and Energy Balance	main	4.4.9	fully	
4.2.1	Computation at User-defined Time Intervals	main	4.6.1	fully	
4.2.2	Mass and Energy Conservation	main	4.6.1	Fully	
4.3	Land/Water Mask	main	4.4.9	fully	
4.4	Run-time Definition of Domain	main	4.4.9	fully	
4.4.1	Domain Definition	main	4.4.9	partial	
4.4.2	Dynamic Tile Use	main	4.4.9	fully	
4.4.3	Tile Definition	main	4.4.9	fully	
4.4.4	time-stepping	main	4.4.9	fully	
4.4.5	I/O of Gridded and Point Data	main	4.4.9	fully	
4.4.6	Support for Time-dependent Variable	main	4.6.1	fully	
4.4.7	Restart Support	main	deleted	deleted	deleted
4.4.8	Start-time and End-time	main	4.4.9	fully	
4.4.9	Mandatory Output	main	4.3.4	fully	
4.4.10	Output Frequency	main	4.4.9	fully	
4.4.11	6-d Gridded Output	main	deleted	deleted	deleted
4.4.12	Quality Control Output	main	4.4.9	fully	
4.4.13	Concurrently Running Ensembles	main	4.6.1	fully	new
4.4.14	Tile-space Output	main	4.6.1	fully	new
5.1	1 ms per grid cell per day Throughput	main	4.2.4,4.2.5	fully	
5.2	0.4 ms per grid cell per day Throughput	main	4.4.5,4.4.6,4.4	fully	
5.3	Performance Monitoring	System	4.6.8	fully	
6.1	User Levels	UI	4.6.3	fully	modified(k)
6.2	Web Browser User Interface	UI	4.6.3	fully	
6.2.1	Read-only access for General Public	UI	4.6.3	fully	

6.2.1.1	Animated or Still Output Images	UI	4.6.3	fully	
6.2.1.2	Contour or Shaded Output Images	UI	4.4.8	fully	
6.2.2	Password-restricted Access to Data	UI	4.6.3	fully	
6.2.2.1	Near-real-time Access to Data	UI	4.6.3	fully	
6.2.3	Password-restricted Access to Run Land Surface Model	System	deleted	deleted	deleted
6.3	Configuration	UI	4.6.3	partial	
6.4	Initialization via Restart	MAIN	4.4.9	fully	
6.5	Write Restart Data	MAIN	4.4.9	fully	
6.6	Queuing System	SYSTEM	4.6.8	fully	
6.7	Batch Mode for Operation	SYSTEM	4.6.8	fully	
6.8	Debug Mode	SYSTEM	4.4.11	fully	
6.9	Error Logging	SYSTEM	4.6.8	fully	
6.10	Publicly Released Documentation and Source Code	UI	inspection	fully	
7.1	LIS Shall run on LIS Cluster	MAIN	4.4.2,4.4.3,4.4	Fully	
7.2	Noah and CLM at 1/4 deg on SGI Origin 3000	MAIN	BASELINE	Fully	
7.3	Noah and CLM at 5km on SGI Origin 3000	MAIN	4.2.1,4.2.2,4.2	Fully	
7.4	VIC on SGI Origin 3000	MAIN	4.3.1	Fully	Modified
7.5	LDAS with Noah and CLM at 5km on LIS Linux Cluster	MAIN	4.3.2,4.3.3	Fully	Modified
7.6	LDAS and VIC on LIS Linux cluster	MAIN	4.3.1	Fully	New
7.7	LDAS and LSMs at 1km on LIS Linux cluster	MAIN	4.4.2,4.4.3,4.4	Fully	New number
7.8	GUI Web Browser for User Interface	UI	4.4.8	Fully	New number
8.1	Data management Shall Support LIS	Data	4.6.2	Fully	
8.2	I/O in GrADS-DODS format	Data	4.4.1	Fully	
8.3	Input Data	Main	4.4.1	Fully	Modified
8.3.1	Input Data Sources	Data	4.4.1	fully	Modified
8.3.2	Re-mapping of Input Data	Main	4.4.1	Fully	
8.3.3	Re-projecting of Input Data	Data	delete	deleted	Deleted
8.3.4	Input Data Spatial Interpolation	Main	4.4.1	Fully	
8.3.5	Input Data Temporal Interpolation	Main	4.4.1	Fully	
8.4	Output data	Data	4.4.1	Fully	

8.4.1	Output Data Formats	Data	4.4.1	Fully	Modified
8.4.2	Output Data Conversion	Main	4.4.8	Fully	Modified
8.4.3	Goode Homolosine for Output Data Projection	Data	delete	deleted	Deleted
8.4.4	Lat/Lon for Output Data Projection	Data	4.4.1	Fully	New
8.4.5	Re-projection of Output Data	Data	4.4.1	Fully	New Number
8.5	Data Catalog	Data	4.4.1	Fully	
8.6	Automatic Update to Catalog	Data	4.4.1	Fully	
8.7	Backup of Data	Data	4.6.2	Fully	
8.8	Data Storage	Data	4.6.2	Fully	
9.1	Data Reliability	Data	4.6.2	fully	
9.2	Authentication and Authorization Enforcement	System	4.6.8	fully	
9.3	Web Access Monitoring	System	4.6.8	fully	
9.4	FTP Monitoring	System	deleted	deleted	deleted (k)
9.5	Usage Limited	System	4.6.8	fully	
10.1	On-line Overview and Help	UI	4.6.3	fully	
10.2	FAQ	UI	4.6.3	fully	
10.3	Highlights Page	UI	4.6.3	fully	
10.4	On-line Tutorial	UI	deleted	deleted	deleted
10.5	User's Guide	UI	4.6.3	Fully	

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